

What is Claimed Is:

1. A pressure point detector for detecting a location of a pressure point, comprising:

5 a flexible insulation member in a predetermined shape;

a resistance film formed on one side of the flexible insulation member;

10 a conductive member made of conductive material and established to face the insulation member with a predetermined gap therebetween, and

15 a pair of electrodes established on said resistance film in a parallel fashion to produce voltage distribution, thereby producing an output voltage from said conductive member indicative of a location of the pressure applied to the insulation member.

2. A pressure point detector as defined in Claim 1, wherein said gap between said resistance film and the conductive member is determined in such a way that, when the 20 pressure is applied to the insulation member, the resistance film contacts the conductive member at a location corresponding to the point where the pressure is applied.

25 3. A pressure point detector as defined in Claim 1, wherein said pair of electrodes are formed in a radial direction on the resistance film from about a center of the resistance film, and wherein an insulation area is established between the electrodes.

30 4. A pressure point detector as defined in Claim 1, wherein, when a voltage is supplied between the pair of electrodes, said voltage distribution is created by equipotential lines in radial directions from about a center of the resistance film, thereby differentiating voltages in a circular direction on the resistance film.

35 5. A pressure point detector as defined in Claim 1, wherein, when a voltage is supplied between the pair of

electrodes, said voltage distribution is created by equipotential lines in radial directions from about a center of the resistance film, thereby differentiating voltages in a circular direction on the resistance film, and wherein an 5 output terminal connected to the conductive member produces said output voltage at the point on a circular direction on the resistance film.

6. A pressure point detector as defined in Claim 1, where said insulation member and said conductive member are 10 shaped like a disc.

7. A pressure point detector for detecting a location of a pressure point, comprising:

a first flexible insulation member in a predetermined shape;

15 a first resistance film formed on one side of the first flexible insulation member;

a second flexible insulation member in a predetermined shape;

20 a second resistance film formed on one side of the second flexible insulation member, where the first and second resistance films are positioned to face with one another with a predetermined gap therebetween;

25 a first pair of electrodes established on said first resistance film in a radial direction in a parallel form; and

a second pair of electrodes established on said second resistance film between a center and an outer edge of the second resistance film.

8. A pressure point detector as defined in Claim 7, 30 wherein said gap between said first resistance film and said second resistance film is determined in such a way that, when the pressure is applied to either the first insulation member or the second insulation member, the first and second resistance films contact with one another at a location 35 corresponding to the point where the pressure is applied.

9. A pressure point detector as defined in Claim 7, wherein said first pair of electrodes are formed in the radial direction in a parallel fashion on the first resistance film from about a center of the first resistance film, and wherein an insulation area is established between the first pair of electrodes.

10. A pressure point detector as defined in Claim 7, wherein one of said second pair of electrodes is a flat disc like electrode formed at about the center of the second resistance film and another one of said second pair of electrodes is a ring like electrode formed around the outer edge of the second resistance film.

11. A pressure point detector as defined in Claim 7, wherein, when a voltage is supplied between the first pair of electrodes, voltage distribution is created on the first resistance film by radial equipotential lines in radial directions from about a center of the first resistance film, thereby differentiating voltages in a circular direction on the first resistance film.

20. A pressure point detector as defined in Claim 7, wherein, when a voltage is supplied between the second pair of electrodes, voltage distribution is created on the second resistance film by concentric equipotential lines in circular directions around a center of the second resistance film, thereby differentiating voltages in a radial direction on the second resistance film.

25. A pressure point detector as defined in Claim 7, wherein, when a voltage is supplied between the first pair of electrodes, voltage distribution is created on the first resistance film by radial equipotential lines in radial directions from about a center of the first resistance film, thereby differentiating voltages in a circular direction on the resistance film, and wherein a first output terminal connected to the first conductive member produces a first

output voltage at the point on the circular direction on the first resistance film.

14. A pressure point detector as defined in Claim 7, wherein, when a voltage is supplied between the second pair 5 of electrodes, voltage distribution is created on the second resistance film by concentric equipotential lines in circular directions around a center of the second resistance film, thereby differentiating voltages in a radial direction on the second resistance film, and wherein a second output terminal 10 connected to the second conductive member produces a second output voltage at the point on the radial direction on the second resistance film.

15. A pressure point detector as defined in Claim 7, where said first insulation member and second insulation 15 member are shaped like a disc.